

AMENDMENTS TO THE CLAIMS

1. (Original) A dunnage making machine, comprising: an upstanding support post, means for rotatively supporting a roll of paper in a horizontal position on one side of the post, a forming bar at the upper end of the post with pair of downwardly curved end sections which are spaced apart by a distance less than the width of the paper for rolling down the edge portions of the paper as the paper is drawn over the bar, an arm extending from the side of the post opposite the paper, a crumpling head mounted on the arm, a throat section mounted on the arm between the post and the crumpling head for receiving the paper from the forming bar and urging the edge portions of the paper toward each other and causing them to gather, a roller within the head for pressing the gathered paper to crumple it, and a knife within the head for perforating the crumpled paper along a serrated tear line.

2. (Original) The dunnage making machine of Claim 1 including a second throat section positioned between the first named throat section and the crumpling roller for gathering the central portion of the paper and further gathering the edge portions.

3. (Original) The dunnage making machine of Claim 1 wherein the knife comprises a plurality of blades mounted in zig-zag fashion on a mandrel which rotates about an axis with the blades in periodic engagement with the surface of a support roller.

4. (Original) The dunnage making machine of Claim 3 wherein the knife blades have cutting edges with an elliptical profile.

5. (Original) The dunnage making machine of Claim 3 wherein the support roller is fabricated of ultra high molecular weight polyethylene.

6. (Original) A machine for crumpling paper to make dunnage, comprising: a forming bar having a pair of curved end sections which are spaced apart by a distance less than the width of the paper so that the edge portions of the paper tend to be rolled toward each other as the paper is drawn across the forming bar, a first throat section having an opening of substantially lesser dimension than the spacing between the end sections of the forming bar for further rolling the edge portions toward each other and gathering them for crumpling, a second throat section having an opening of lesser dimension than the first throat opening for gathering the central portion of the paper and further gathering the edge portions, and a pair of rollers engagable with opposite sides

of the paper for drawing the paper over the forming bar and through the throat openings, then pressing the gathered portions together.

7. (Original) The machine of Claim 6 wherein the rollers are of lesser width than the throat openings and tension only the central portion of the paper as the paper is drawn across the forming bar and through the openings.

8. (Original) The machine of Claim 6 including knives for perforating the crumpled paper along a serrated line.

9. (Currently Amended) A machine for making paper dunnage, comprising: means for feeding paper along a path, means for drawing edge portions of the paper together and gathering the paper as it is fed along the path, a crumpling roller engagable with the gathered paper, ~~and a knife for perforating the paper along longitudinally spaced, laterally extending serrated lines~~ a cylindrical mandrel oriented with its axis generally perpendicular to the path of the paper and having at least one flat side which is tangential to the axis, a plurality of blades mounted on the flat surface in zig-zag fashion along a line parallel to the axis for periodic engagement with the paper as the mandrel rotates about its axis, and a support roller rotatable about an axis parallel to the axis of the knife mandrel with a surface which supports the paper for engagement by the knife blades.

10 - 11. Cancelled.

12. (Currently Amended) The machine of Claim [[10]] 9 wherein the support roller is fabricated of ultra high molecular weight polyethylene.

13. (Currently Amended) The ~~dunnage-making~~ machine of Claim [[10]] 9 wherein the knife blades have cutting edges with an elliptical profile.

14 - 19. Cancelled.

20. (Newly Added) A machine for crumpling paper to make dunnage, comprising: a forming element having a pair of curved end sections which are spaced apart by a distance less than the width of the paper so that the edge portions of the paper tend to be rolled toward each other as the paper is drawn across the forming element, a first throat section having an opening of substantially lesser dimension than the spacing between the end sections of the forming element for further rolling the edge portions toward each other and gathering them for crumpling, a second throat section having an opening of lesser dimension than the first throat opening for gathering the

central portion of the paper and further gathering the edge portions, and a roller for drawing the paper over the forming element and through the throat openings, then pressing the gathered portions together, with the roller being of lesser width than the throat openings so as to tension only the central portion of the paper as the paper is drawn across the forming element and through the openings.

21. (Newly Added) The machine of Claim 20 including knives for perforating the crumpled paper along a serrated line.